



hp 24x max slim cd-rom drive

(P1549A)

installation guide
installationshandbuch
guide d'installation
guía de instalación
léase este primero
guida di installazione

安裝指南



Notice

The information contained in this document is subject to change without notice. Hewlett-Packard makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. Hewlett-Packard assumes no responsibility for the use or reliability of its hardware or software on equipment that is not furnished by Hewlett-Packard or equipment for which it is not intended. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied, reproduced, or translated to another language without the prior written consent of Hewlett-Packard Company.

Acrobat® and Adobe® are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Symbios™ is a trademark of LSI Logic Corporation. Microsoft®, MS®, MS-DOS®, Windows®, and Windows NT® are U.S. registered trademark of Microsoft Corporation.

Hinweis

Inhaltliche Änderungen vorbehalten. Hewlett-Packard übernimmt keine Garantie welcher Art auch immer für diese Ausrüstung, einschließlich der (doch nicht begrenzt auf die) Qualitätsgarantie und die Garantie bezüglich Eignung für einen bestimmten Zweck. Hewlett-Packard haftet nicht für in dieser Dokumentation enthaltene Fehler oder für unbeabsichtigte oder indirekte Schäden in Verbindung mit der Lieferung, der Leistung oder der Benutzung der Ausrüstung. Hewlett-Packard übernimmt keine Haftung für den Betrieb oder die Zuverlässigkeit seiner Software, wenn diese auf Hardware benutzt wird, die nicht von Hewlett-Packard geliefert wurde. Dieses Dokument enthält proprietäre Informationen, die durch das Copyright geschützt sind. Alle Rechte vorbehalten. Dieses Dokument darf ohne vorherige schriftliche Genehmigung der Hewlett-Packard Company weder ganz noch teilweise fotokopiert, reproduziert oder übersetzt werden.

Acrobat® and Adobe® are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Symbios™ is a trademark of LSI Logic Corporation. Microsoft®, MS®, MS-DOS®, Windows®, and Windows NT® are U.S. registered trademark of Microsoft Corporation.

Avertissement

Les informations contenues dans ce document peuvent être modifiées sans préavis. Hewlett-Packard ne donne aucune garantie de quelque sorte que ce soit concernant, sans que ce soit limitatif, les garanties implicites de qualité commerciale de ce matériel, ou la bonne adaptation de celui-ci à un usage particulier. Hewlett-Packard n'est pas responsable des erreurs pouvant apparaître dans ce manuel et n'est pas non plus responsable des dommages directs ou indirects résultant de l'équipement, des performances et de l'utilisation de ce matériel. Hewlett-Packard ne saurait être tenu pour responsable de l'utilisation et de la fiabilité de son logiciel sur des matériels non fournis par Hewlett-Packard. Les informations contenues dans ce document sont originales et protégées par copyright. Tous droits réservés. L'acheteur s'interdit en conséquence de les photocopier, de les reproduire ou de les traduire dans toute autre langue, sauf accord préalable et écrit de Hewlett-Packard.

Acrobat® and Adobe® are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Symbios™ is a trademark of LSI Logic Corporation. Microsoft®, MS®, MS-DOS®, Windows®, and Windows NT® are U.S. registered trademark of Microsoft Corporation.

Aviso

La información contenida en este documento está sujeta a cambios sin previo aviso. Hewlett-Packard no ofrece ningún tipo de garantía con respecto a este material, incluyendo, pero sin limitarse a, las garantías implícitas de comerciabilidad e idoneidad para un fin determinado. Hewlett-Packard no asume responsabilidad alguna por los posibles errores contenidos o por los daños casuales o emergentes relacionados con el suministro, funcionamiento o uso de este material. Hewlett-Packard no asume responsabilidad alguna por el uso o fiabilidad de su software en equipos que no hayan sido fabricados por Hewlett-Packard. Este documento contiene información patentada, protegida por las leyes del copyright. Reservados todos los derechos. Ninguna parte de este documento puede ser fotocopiada, reproducida o traducida a otro idioma sin la autorización previa y por escrito de Hewlett-Packard Company. Acrobat® and Adobe® are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Symbios™ is a trademark of LSI Logic Corporation. Microsoft®, MS®, MS-DOS®, Windows®, and Windows NT® are U.S. registered trademark of Microsoft Corporation.

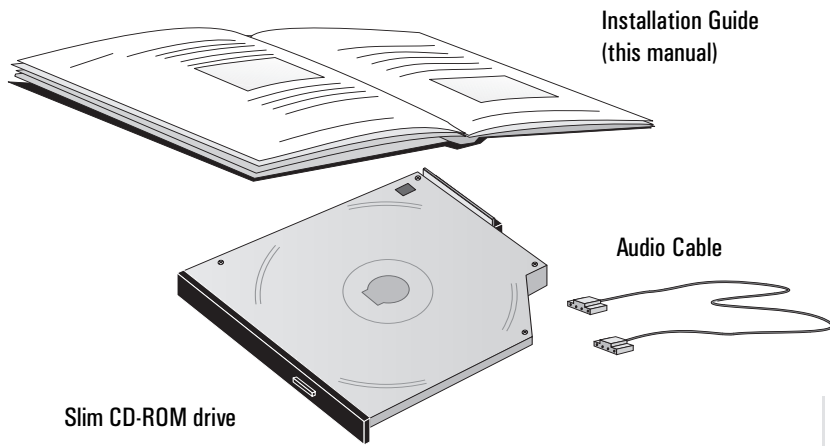
Avviso

Le informazioni contenute in questo documento sono soggette a cambiamento senza preavviso. Hewlett-Packard non rilascia garanzie di alcun tipo riguardo a questo materiale, comprese le garanzie implicite di commerciabilità e di idoneità per uno scopo particolare. Hewlett-Packard non sarà ritenuta responsabile per errori contenuti in questo documento, né per danni accidentali o conseguenti alla fornitura, alle prestazioni o all'uso di questo materiale. Hewlett-Packard non si assume alcuna responsabilità riguardo all'uso o all'affidabilità del proprio software su apparecchiature di altri produttori. Questo documento contiene informazioni di proprietà protette da copyright. Tutti i diritti sono riservati. Nessuna parte di questo documento può essere fotocopiata, riprodotta o tradotta in un'altra lingua senza un precedente consenso scritto di Hewlett-Packard Company. Acrobat® and Adobe® are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Symbios™ is a trademark of LSI Logic Corporation. Microsoft®, MS®, MS-DOS®, Windows®, and Windows NT® are U.S. registered trademark of Microsoft Corporation.

注意

本文件所含資訊如有更改，恕不另行通知。惠普科技對本文件不作任何形式的保證，包括但不限於就銷售合適性及適合特定用途之默許保證。惠普科技對本文件之譯誤，或者由於本資料的供應、性能表現或使用所造成的直接或間接損害概不負責。在非惠普科技原廠供應的裝置或非計劃使用的裝置上所執行的惠普硬體或軟體，惠普科技不需為其使用或可靠性承擔任何責任。本文件中包含的專利資訊受版權保護。版權所有，翻印必究。事先未獲得惠普科技書面許可，不得擅自影印、複製或翻譯本文件中的任何內容。

Acrobat® 與 Adobe® 是 Adobe Systems Incorporated 的商標，並可能在某些管轄區內已註冊。Symbios™ 是 LSI Logic Corporation 的商標。Microsoft®、MS®、MS-DOS®、Windows® 及 Windows NT® 是 Microsoft 公司在美國的註冊商標。



Installing Your HP 24x max Slim CD-ROM Drive

Before You Install

Congratulations on purchasing the HP 24x max Slim CD-ROM drive, an advanced Slim CD-ROM drive that allows your computer to access the information stored on different types of compact discs, including CD-ROM XA, CD-R/W, CD-R, Audio CD and Photo CD (single session and multi-session).

The drive *reads* the data stored on a compact disc, but because compact discs are 'read-only', the drive cannot write data to the disc.

WARNING

For your safety, never remove the PC's cover without first removing the power cord from the power outlet and any connection to a telecommunication network. Always replace the cover before switching on again. To avoid electric shock and harm to your eyes by laser light, do not open the laser module. The laser module should be serviced by service personnel only. Do not attempt to make any adjustment to the laser unit. This product is a class 1 laser product.

Supported Platforms

This manual describes how to install the HP 24x max Slim CD-ROM drive and its setup procedure for the following operating systems supported by HP:

- Windows 95 OSR 2.1/2.5
- Windows 98 (Retail) and Windows 98 Second Edition
- Windows 2000 RTM
- Windows NT 4.0 (Service Pack 3, 4, 5 or 6)

To find out which PCs support the HP 24x max Slim CD-ROM drive go to the following web site:

www.hp.com/go/pcaccessories

Overview of the Installation Procedure

Installing your HP 24x max Slim CD-ROM drive is a 2 step process:

Step 1: Installing the Slim CD-ROM drive

Step 2: Configuring your operating system

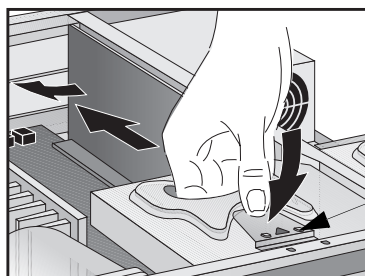
Installing Your HP 24x max Slim CD-ROM Drive

Step 1: Installing the Slim CD-ROM Drive

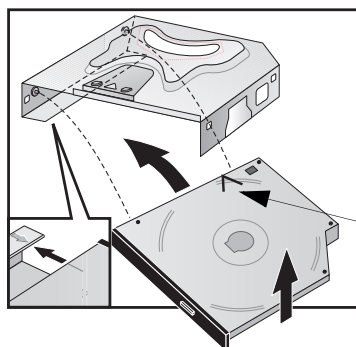
CAUTION

To avoid damage when operating the Slim CD-ROM drive, do not touch the lens.

- 1 Switch off the monitor and PC, disconnect all power cords and any telecommunications cables.
- 2 Remove the computer's cover (described in your PC's *User's Guide*).
- 3 Remove the drive tray by pressing firmly down on the tab. Pull gently towards the rear of the PC. Lift out the tray carefully, making sure you do not damage the riser card directly behind it.



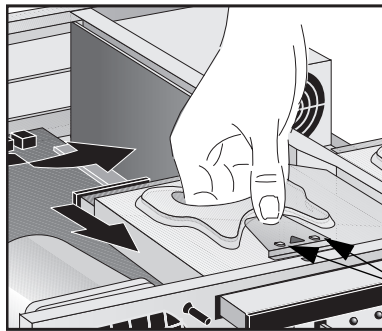
- 4 Fit the Slim CD-ROM drive in the tray, matching the location pins in the drive tray with the holes in the drive. To correctly position the CD-ROM drive, align the arrow mark (located on the CD-ROM drive) with the drive tray and clip it into position.



Installing Your HP 24x max Slim CD-ROM Drive

Step 1: Installing the Slim CD-ROM Drive

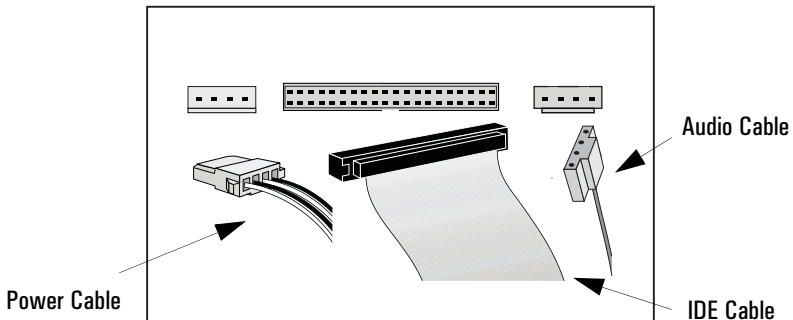
- 5 Insert the drive tray into the computer, ensuring the two retaining tabs are fully engaged.



Inserting drive tray

retaining tabs

- 6 Connect the IDE cable, then connect the audio cable and finally connect the power connector to the rear of the Slim CD-ROM drive.



Power Cable

Audio Cable

IDE Cable

- 7 Replace the computer's cover (as described in your PC's *User's Guide*).
- 8 Reconnect the computer's power cord and any telecommunications cables.

Step 2: Configuring Your Operating System (Windows 95, Windows 98, Windows 2000 and Windows NT 4.0)

The detection of the Slim CD-ROM drive, the configuration of the system and the loading of the drivers is, in most cases, automatic. Once you have physically installed the Slim CD-ROM drive in your computer, all you have to do is turn on the PC and use the new drive.

NOTE

In Windows 95, Windows 98, Windows 2000 and Windows NT 4.0, there are no special icons for Slim CD-ROM drive. The drive is identified in the same way as standard CD-ROM drives and uses the same icon.

If your system does not recognize the Slim CD-ROM drive (for example, there is no CD-ROM icon in Windows Explorer or Windows NT Explorer), you need to enable the drive in your *Setup* program. Restart the computer and press **F2** when **F2 Setup** appears.

For details of how to enable the Slim CD-ROM drive in your *Setup* program, refer to “Slim CD-ROM drive not recognized” on page 10.

Using Your Slim CD-ROM Drive

Your Slim CD-ROM drive reads information or programs on a CD-ROM but cannot record to one. For instructions about accessing specific data stored on a CD-ROM, refer to the documentation supplied with the disc. Your Slim CD-ROM drive also lets you listen to audio CDs.

Door.

Protects the Slim CD-ROM drive from dust contamination and accidental damage.

Open Button

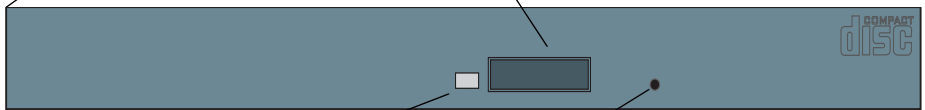
This opens the Slim CD-ROM drawer. Place the disc, label side facing up, in the recess in the drawer. Make sure the disc sits snugly in the drawer by pressing the disc firmly in place.

Busy Indicator.

Glows bright when the drive is active.

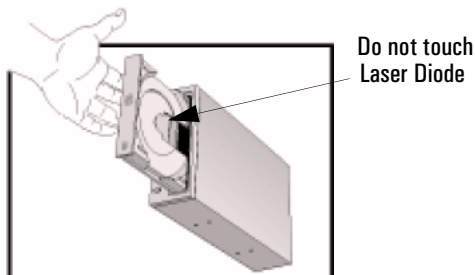
Emergency Eject.

Used to open the Slim CD-ROM drive mechanically when the power supply is off.



Vertical Operation

If you use the drive in a vertical position, make sure the disc sits snugly in the drawer by pressing the disc firmly in place. Make sure you do not touch the laser diode.



Installing Your HP 24x max Slim CD-ROM Drive

Using Your Slim CD-ROM Drive

CAUTION

Do not touch the laser diode.

Loading a Disc

- 1 Press the Open button until the CD-ROM drawer opens.
- 2 Place the disc, label side facing up, in the drawer recess. If there is no label, insert the disc with the text facing up.
- 3 Push the drawer gently to close it.

Reading a Disc

To verify that the Slim CD-ROM drive is correctly installed, list the contents of the disc. For example, click on the CD-ROM icon in **Windows Explorer** (Windows 95, Windows 98, Windows 2000 and Windows NT 4.0). If an error message appears on the screen, refer to “Error Messages” on page 12 for additional information.

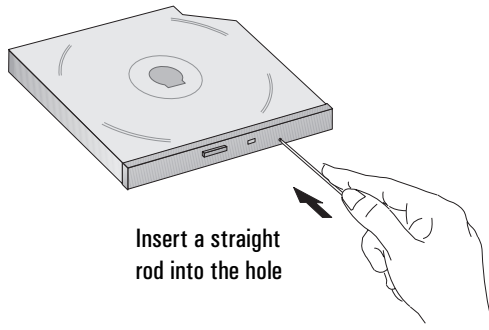
Ejecting a Disc Automatically

To remove the disc, press the Open button to open the drawer. Remove the disc, then push the drawer to close it.

Ejecting a Disc Manually

If the Open button is disabled by software or a power failure:

- 1 Turn off the PC. Ensure all power is disconnected.
- 2 Insert a straight rod (for example, a straightened paper clip) into the emergency eject hole next to the Open button. The drawer should eject by about 15 mm (0.6 inches).



Insert a straight
rod into the hole

- 3 Pull out the drawer by hand and remove the disc.
- 4 Push the drawer gently back into the drive.

CAUTION

If the CD-ROM drawer does not open properly, switch off the PC, and disconnect all power cords and telecommunications cables. Remove the PC's cover and check the drive tray is correctly fitted and that the front panel will not hinder the opening of the drawer. (Refer to Step 1: Installing the Slim CD-ROM Drive, on page 4).

Solving Problems

This section describes how to solve problems that may occur with your Slim CD-ROM drive.

As a general rule, when diagnosing and solving problems, the first thing to do is to check that your system is correctly configured. Do this *before* removing your computer's cover to check the CD-ROM cable connections and jumper settings.

Slim CD-ROM
drive not
recognized

If your system does not seem to recognize the Slim CD-ROM **D:** drive at all—for example, there is no CD-ROM icon in **My Computer** you need to enable the drive in your *Setup* program.

- 1 Restart the computer and press **F2** when **F2 Setup** appears.
- 2 The information displayed in the **IDE Devices** submenu of the **Advanced** menu group should appear as follows:
 - The CD-ROM drive should be declared as **CD-ROM**
 - The **Local Bus IDE Adapter** parameter should be set to **Both, IRQ 14/15**.

Audio function
not working

If you are having audio problems:

- Check that the Windows audio driver is correctly installed
- Check that your PC volume settings are not set to the minimum. These can be checked, for example, in the **Start ⇨ Control Panel ⇨ Multimedia** in Windows 95, Windows 98, Windows 2000 and Windows NT 4.0.
- Check that the disc in the Slim CD-ROM drive is an audio disc and not a photo disc or data disc.
- If using headphones or external speakers, check that they are properly connected and/or that the volume icon on your PC is not set to minimum or mute.
- Check that the audio cable is correctly connected (refer to page 5).

No audio
function. For
Windows 95
users only.

Try disabling the DMA by doing the following:

- 1 In Windows 95, choose **Start ⇨ Control Panel ⇨ Settings**, double click on **System**.
- 2 Select the **Hardware** tab and click on **Device Manager**.
- 3 Double click on **CD-ROM**, double click on **Mitsumi CD-ROM**, select the **Hardware** tab and click on **Settings**.

- | | |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Slim CD-ROM drive is idle | <p>If the Slim CD-ROM drive appears not to be working:</p> <ul style="list-style-type: none">• Try accessing the disc, by clicking on the drive letter assigned to the CD-ROM drive or by clicking on the CD-ROM drive icon (if you are using Windows 95, Windows 98, Windows 2000 or Windows NT 4.0). |
| System halts when accessing Slim CD-ROM drive | <p>If you are running Windows 95, Windows, 98, Windows 2000 or Windows NT4.0</p> <ul style="list-style-type: none">• Try accessing the disc by clicking on the CD-ROM drive icon. |

Error Messages

The following table shows some common error messages that may appear on the screen and possible ways of solving the related problem.

Error Message	Suggested Action
D:\ or E:\ is not accessible. The device is not ready.	<p>Check disc is correctly inserted in the drive and that the disc drawer is closed. Press Retry.</p> <p>The disc may be dirty or damaged. Try another disc.</p> <p>Check drive cable connections and ensure drive is correctly installed.</p>
No disc found	<p>If the CD-ROM drive is connected to your PC by a connector on the same cable as your primary IDE hard disk, check that the jumper on the rear of the drive is set to the SLAVE position.</p> <p>If the CD-ROM drive is connected to your PC by a connector on the secondary IDE cable, check that the jumper on the rear of the CD-ROM drive is set to the MASTER (no other device on same cable) or SLAVE (other device on cable configured as MASTER) position.</p> <p>Check the CD-ROM drive's data cable and power cable connections.</p>
There is no disk in the drive "n", insert a disk and try again	<p>Check that the disc in the CD-ROM drive is correctly inserted.</p>
Access denied	<p>Check that the disc is not already being used by another application at the same time.</p>
Invalid drive specification	<ol style="list-style-type: none">1 Check that the CD-ROM drive is enabled in <i>Setup</i> (refer to page 6).2 Check that you have selected the correct drive letter that identifies the CD-ROM drive to your computer.

Error Message	Suggested Action
Insufficient memory	Delete any TSR (terminate and stay resident) programs from memory and edit the AUTOEXEC.BAT file to remove statements referring to these TSR programs. In addition, use a memory manager program to make better use of memory.
No valid drive/disk found	<p>Check that there is a disc in the CD-ROM drive.</p> <p>Check that the Windows audio driver is installed correctly.</p>

Technical Specifications

Data Capacity	656 MB (Mode 1) 748 MB (Mode 2)
Data Transfer Rate	Sustained Transfer Rate (1K=210=1,024) Innerside: 1,545 Kbytes/sec (10.3X, Mode-1) Outerside: 3,600 Kbytes/sec (24X, Mode-1) Burst Transfer Rate PIO Mode 4: 16.7 MB/sec max Single Word DMA Mode 2: 16.7MB/sec max Multi Word DMA Mode 2: 16.7 MB/sec maximum
Buffer Size	512
Access Time	Average Random Access Time: 100ms (130 ms (except in audio play mode) Full Stroke: 250 ms (except in audio play mode)
Rotational Speed	Variable 5400 *rpm (*average in audio mode).
Interface	IDE ATAPI
Power Requirements	5V,1.2A
Supported CD-ROM discs (confirmed by Red, Yellow, Green, and Orange Book)	CD-ROM Mode-1 data disc CD-ROM Mode-2 data disc) CD-ROM XA Mode-2 CD-I Photo CD Single/Multi-session Enhanced CD Video CD CD Audio disc Mixed mode CD-ROM disc (data and audio) CD-Extra CD-R CD-RW (Multiread Compatibility) ¹

1. You need to have CD-UDF drivers from ADAPTEC to have full CD-RW support.

Regulatory Information

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and CEN/CENELEC 45014

Manufacturer's Name: HP France

Manufacturer's Address: 5, Avenue Raymond Chanas - EYBENS
38053 GRENOBLE CEDEX 09 - FRANCE

Declares, that the products:

Product Name: CD ROM Drive

Model Number: P1549A

Conforms to the following Product Specifications:

SAFETY

-International: IEC 60950:1991 + A1 + A2 + A3 + A4
-Europe: EN 60950:1992 + A1 + A2 + A3 + A4
EN 60825:1991

ELECTRO MAGNETIC COMPATIBILITY

-CISPR 22:1993 EN 55022:1994 Class B
-EN 50082-1:1992
IEC 801-2:1991 / prEN 55024-2:1992 - 4kV CD, 8 kV AD
IEC 801-3:1984 / prEN 55024-3:1991 - 3V/m
IEC 801-4:1988 / prEN 55024-4:1992 - 0.5 kV Signal Lines
1 kV Power Lines

Supplementary information:

The product herewith complies with the requirements of the EMC Directive 89/336/EEC and carries the CE-marking accordingly.

Grenoble, November 2000



Didier Cabaret
QUALITY MANAGER

For Compliance Information ONLY, contact:

USA contact: Hewlett-Packard Company, Corporate Product Regulations Manager, 3000 Hanover Street, Palo Alto, CA 94304. Phone: (+1)(650) 857-1501.

HP Support Services

The latest drivers and utilities are available on HP's Web site at:

For HP Vectra PCs **www.hp.com/go/vectrasupport**

For HP Brio PCs **www.hp.com/go/briosupport**

For HP Kayak PCs **www.hp.com/go/kayaksupport**

HP Hardware Warranty

This HP accessory is covered by a limited hardware warranty for a period of one year from the date of purchase by the original end-user. The type of service provided is return to an HP or repair-authorized reseller service-center.

At Hewlett-Packard's discretion, a defective accessory will be repaired or replaced by a new unit, either of the same type or of an equivalent model.

If this accessory is purchased and used together with an HP PC, it will be covered by the warranty of this computer or workstation, under the same conditions of service and duration.

Please, refer to the warranty statement provided with your HP PC for warranty limitations, customer responsibilities and other terms and conditions.

FOR CONSUMER TRANSACTIONS IN AUSTRALIA AND NEW ZEALAND: THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.



Part Number: P1549-90027
Printed 11/00 in

Paper not bleached with chlorine



P1549-90027